# Cuichen Wu

List of Publications by Year
in descending order



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|---|---|---|---|
| 34 papers | 3,615 citations | 159585 30 h-index | 361022 35 g-index |
| 36 all docs | 36 docs citations | 36 times ranked | 4922 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An Aptamer Crossâ€Linked Hydrogel as a Colorimetric Platform for Visual Detection. Angewandte Chemie - International Edition, 2010, 49, 1052-1056. | 13.8 | 328 |
| 2 | Rationally designed molecular beacons for bioanalytical and biomedical applications. Chemical Society Reviews, 2015, 44, 3036-3055. | 38.1 | 306 |
| 3 | A Nonenzymatic Hairpin DNA Cascade Reaction Provides High Signal Gain of mRNA Imaging inside Live Cells. Journal of the American Chemical Society, 2015, 137, 4900-4903. | 13.7 | 288 |
| 4 | Building a Multifunctional Aptamer-Based DNA Nanoassembly for Targeted Cancer Therapy. Journal of the American Chemical Society, 2013, 135, 18644-18650. | 13.7 | 229 |
| 5 | A Targeted, Self-Delivered, and Photocontrolled Molecular Beacon for mRNA Detection in Living Cells. Journal of the American Chemical Society, 2013, 135, 12952-12955. | 13.7 | 185 |
| 6 | Molecular Recognition-Based DNA Nanoassemblies on the Surfaces of Nanosized Exosomes. Journal of the American Chemical Society, 2017, 139, 5289-5292. | 13.7 | 175 |
| 7 | Goldâ€Coated Fe<sub>3</sub>O<sub>4</sub> Nanoroses with Five Unique Functions for Cancer Cell Targeting, Imaging, and Therapy. Advanced Functional Materials, 2014, 24, 1772-1780. | 14.9 | 172 |
| 8 | Cell Membrane-Anchored Biosensors for Real-Time Monitoring of the Cellular Microenvironment. Journal of the American Chemical Society, 2014, 136, 13090-13093. | 13.7 | 142 |
| 9 | Preparation and biomedical applications of programmable and multifunctional DNA nanoflowers. Nature Protocols, 2015, 10, 1508-1524. | 12.0 | 141 |
| 10 | Ionic Functionalization of Hydrophobic Colloidal Nanoparticles To Form Ionic Nanoparticles with Enzymelike Properties. Journal of the American Chemical Society, 2015, 137, 14952-14958. | 13.7 | 130 |
| 11 | Engineering of Switchable Aptamer Micelle Flares for Molecular Imaging in Living Cells. ACS Nano, 2013, 7, 5724-5731. | 14.6 | 124 |
| 12 | A Logical Molecular Circuit for Programmable and Autonomous Regulation of Protein Activity Using DNA Aptamerâ€"Protein Interactions. Journal of the American Chemical Society, 2012, 134, 20797-20804. | 13.7 | 111 |
| 13 | Self-Assembled DNA Immunonanoflowers as Multivalent CpG Nanoagents. ACS Applied Materials & Interfaces, 2015, 7, 24069-24074. | 8.0 | 101 |
| 14 | Self-assembled multifunctional DNA nanoflowers for the circumvention of multidrug resistance in targeted anticancer drug delivery. Nano Research, 2015, 8, 3447-3460. | 10.4 | 95 |
| 15 | A cascade reaction network mimicking the basic functional steps of adaptive immune response. Nature Chemistry, 2015, 7, 835-841. | 13.6 | 95 |
| 16 | Silver Nanoparticle Gated, Mesoporous Silica Coated Gold Nanorods (AuNR@MS@AgNPs): Low Premature Release and Multifunctional Cancer Theranostic Platform. ACS Applied Materials & Interfaces, 2015, 7, 6211-6219. | 8.0 | 92 |
| 17 | Engineering a Cell-Surface Aptamer Circuit for Targeted and Amplified Photodynamic Cancer Therapy. ACS Nano, 2013, 7, 2312-2319. | 14.6 | 90 |
| 18 | A general excimer signaling approach for aptamer sensors. Biosensors and Bioelectronics, 2010, 25, 2232-2237. | 10.1 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Versatile surface engineering of porous nanomaterials with bioinspired polyphenol coatings for targeted and controlled drug delivery. Nanoscale, 2016, 8, 8600-8606. | 5.6 | 78 |
| 20 | A survey of advancements in nucleic acid-based logic gates and computing for applications in biotechnology and biomedicine. Chemical Communications, 2015, 51, 3723-3734. | 4.1 | 67 |
| 21 | Biostable L-DNAzyme for Sensing of Metal Ions in Biological Systems. Analytical Chemistry, 2016, 88, 1850-1855. | 6.5 | 65 |
| 22 | Two-Photon Sensing and Imaging of Endogenous Biological Cyanide in Plant Tissues Using Graphene Quantum Dot/Gold Nanoparticle Conjugate. ACS Applied Materials & Interfaces, 2015, 7, 19509-19515. | 8.0 | 59 |
| 23 | DLISA: A DNAzyme-Based ELISA for Protein Enzyme-Free Immunoassay of Multiple Analytes. Analytical Chemistry, 2015, 87, 7746-7753. | 6.5 | 56 |
| 24 | Enhanced Targeted Gene Transduction: AAV2 Vectors Conjugated to Multiple Aptamers via Reducible Disulfide Linkages. Journal of the American Chemical Society, 2018, 140, 2-5. | 13.7 | 43 |
| 25 | Constructing Smart Protocells with Built-In DNA Computational Core to Eliminate Exogenous Challenge. Journal of the American Chemical Society, 2018, 140, 6912-6920. | 13.7 | 43 |
| 26 | Pyrene Excimer Nucleic Acid Probes for Biomolecule Signaling. Journal of Biomedical Nanotechnology, 2009, 5, 495-504. | 1.1 | 42 |
| 27 | DNA micelle flares: a study of the basic properties that contribute to enhanced stability and binding affinity in complex biological systems. Chemical Science, 2016, 7, 6041-6049. | 7.4 | 37 |
| 28 | Nucleic Acid Based Logical Systems. Chemistry - A European Journal, 2014, 20, 5866-5873. | 3.3 | 36 |
| 29 | DNA Aptamer Based Nanodrugs: Molecular Engineering for Efficiency. Chemistry - an Asian Journal, 2015, 10, 2084-2094. | 3.3 | 35 |
| 30 | Enzymatic cleavage and mass amplification strategy for small molecule detection using aptamer-based fluorescence polarization biosensor. Analytica Chimica Acta, 2015, 879, 91-96. | 5.4 | 29 |
| 31 | Molecular Recognition of Human Liver Cancer Cells Using DNA Aptamers Generated via Cell-SELEX. PLoS ONE, 2015, 10, e0125863. | 2.5 | 29 |
| 32 | Aligner-mediated cleavage of nucleic acids and its application to isothermal exponential amplification. Chemical Science, 2018, 9, 3050-3055. | 7.4 | 19 |
| 33 | Electrochemical detection of type 2 diabetes mellitus-related SNP via DNA-mediated growth of silver nanoparticles on single walled carbon nanotubes. Chemical Communications, 2015, 51, 15704-15707. | 4.1 | 15 |
| 34 | Fabrication of ultrathin Zn(OH)2 nanosheets as drug carriers. Nano Research, 2016, 9, 2520-2530. | 10.4 | 12 |